

ABSTRACT

1 A bi-directional high speed video data transmission system. A transmitter
2 transmits an encoded video data stream across a data pair to a receiver by switching a DC
3 current, via a pair of transistors, across the two data lines comprising the data pair. As the
4 current varies on the data lines, so too does the voltage. The receiver decodes the serial
5 video data stream back into its component parts so that the video data may be displayed
6 by an appropriate display device. A pair of summing resistors adds the AC currents seen
7 across the data lines to reconstruct the original DC current as a DC return current. The
8 DC return current may be used to drive a return transmitter located on the original
9 receiving side in order to send video data to the original transmitting side of the bi-
10 directional video data transmission system.
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